

1 22. (New) A method of manufacturing thin film transistors

2 comprising the steps of:

3 (a) forming a plurality of island-shaped semiconductor layers on a substrate  
4 having an insulative surface;

5 (i) forming a gate insulating film on said substrate, said film  
6 covering said semiconductor layers;

7 (ii) forming a gate electrode layer on said gate insulating film;

8 (b) implanting dopant into first regions at outsides of a region designated  
9 for a channel region in each of said semiconductor layers directly or through a thin insulation  
10 film whose thickness is equal to or less than 50nm by ion implantation to form lightly doped  
11 regions;

12 (c) implanting dopant into outer regions within said first regions in each of  
13 said semiconductor layers directly or through said thin insulation film to form heavily doped  
14 source/drain regions whose impurity concentration is higher than that of said lightly doped  
15 regions; and

16 (d) irradiating a laser beam directly or through said thin insulation film to  
17 said first regions to activate dopants implanted in steps (b) and (c).